

Recombinant Bovine Complement C3 (C3), N-His-SUMO

Cat. No.: AP9C273

Product Type: Animal Proteins

Size: 20 µg; 100 µg; 1 mg

Product Overview

BioVenic's Recombinant Bovine Complement C3 (C3), N-His-SUMO is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 39.5 kDa. The purity is >90% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Bovine
Expression System	<i>E.coli</i>
Purity	>90% (SDS-PAGE)
Predicted Molecular Weight	39.5 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.

Target Information

Bovine complement C3 (C3) is a central component of the Bovine immune system, playing a pivotal role in the complement cascade, a key part of both the innate and adaptive immune responses. This protein is essential for eliciting the complement response, which is critical in the clearance of pathogens and immune complexes. C3 consists of two polypeptide chains held together by a disulfide bridge and contains an internal thioester that, when activated, mediates the covalent attachment of C3b to immune complexes and invading microorganisms, thereby opsonizing the target. The activation of C3 can lead to the formation of the membrane attack complex (MAC), which can directly destroy pathogens. In veterinary medicine, understanding the function of C3 is vital for developing strategies to combat infections and for the management of diseases that involve dysregulation of the complement system.

Protein	Bovine Complement C3 (C3)
Gene ID	280677
UniProt ID	Q2UVX4

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquot as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months. Avoid repeated freezing and thawing.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimise freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.